

Claims

What is claimed is:

1. A shaving system, comprising:

5        a) a pivot frame;  
          b) a pivot assembly pivotally coupled to said pivot frame; and  
          c) a blade assembly pivotally coupled to said pivot assembly.

2. A shaving system according to claim 1, wherein said blade assembly

10      is rotatable relative to said pivot assembly from a first position to a second position and when in said first position, rotation of said pivot assembly relative to said pivot frame causes rotation of said blade assembly about a center axis of said blade assembly.

15      3. A shaving system according to claim 2, wherein for said blade assembly is rotatable relative to said pivot assembly from a first position to a second position and when in said second position, rotation of said pivot assembly relative to said pivot frame causes rotation of said blade assembly about a guard-bar axis of said blade assembly.

20      4. A shaving system according to claim 1, further comprising:  
          d) first biasing means between said blade assembly and said pivot assembly; and  
          e) second biasing means between said pivot assembly and said pivot

25      frame.

5. A shaving system according to claim 4, wherein said first biasing means is stronger than said second biasing means.

30      6. A shaving system according to claim 4, wherein said second biasing means allows bi-directional rotation of said pivot assembly relative to said pivot frame.

7. A shaving system according to claim 4, wherein said second biasing means allows only uni-directional rotation of said pivot assembly relative to said pivot frame.

5 8. A shaving system according to claim 4, wherein said second biasing means is a cantilevered spring.

9. A shaving system according to claim 4, wherein said second biasing member is a cam follower.

10 10. A shaving system according to claim 1, wherein said blade assembly is rotatable approximately 45° relative to said pivot assembly.

15 11. A shaving system according to claim 10, wherein said pivot assembly is rotatable approximately ±20° relative to said pivot frame.

12. A shaving system according to claim 10, wherein said pivot assembly is rotatable approximately 40° relative to said pivot frame.

20 13. A shaving system, comprising:  
a) a shaving cartridge that rotates relative to a pivot;  
b) a pivot that rotates relative to a pivot frame; and  
c) a pivot frame.

25 14. A shaving system as set forth in claim 13, wherein said shaving cartridge rotates relative to a pivot going from a center pivot to a guard-bar pivot.

15. A shaving system as set forth in claim 13, wherein said shaving cartridge rotates relative to a pivot going from a center pivot substantially on said 30 shave plane to a guard-bar pivot substantially on said shave plane.

16. A shaving system as set forth in claim 13, wherein said shaving cartridge rotates relative to a pivot going from a center pivot substantially on said

shave plane to a guard-bar pivot substantially on said shave plane as loading increases.

17. A shaving system as set forth in claim 16, wherein said shaving cartridge rotates relative to said pivot going back from a guard-bar pivot substantially on said shave plane to a center pivot substantially on said shave plane as loading decreases.

18. A shaving system as set forth in claim 17, wherein said pivot relative to said pivot frame supports unidirectional pivoting.

19. A shaving system as set forth in claim 17, wherein said pivot relative to said pivot frame supports bi-directional pivoting.

20. A triple blade shaving system, comprising:  
a) a pivot frame;  
b) a pivot assembly pivotally coupled to said pivot frame; and  
c) a triple blade, blade assembly pivotally coupled to said pivot assembly,

wherein said blade assembly is rotatable relative to said pivot assembly from a first position to a second position; and (1) when in said first position, rotation of said pivot assembly relative to said pivot frame causes rotation of said blade assembly about a center axis, substantially on the shave plane, of said blade assembly; and (2) when in said second position, rotation of said pivot assembly relative to said pivot frame causes rotation of said blade assembly, substantially on said shave plane, about a guard-bar axis of said blade assembly.